



## Key Benefits

- **Reliable** – Distributed and concurrent signaling over two hosts
- **Cost Efficient** – Operates on industry-standard, NEBS-compliant servers
- **Open, Standards-based** – Supports SIGTRAN and SS7 protocols
- **Capacity – Link density** of up to 16 SS7 links (16 links per Cluster)
- **Global Variants** – Compatible with networks in over 60 countries
  - ANSI, ITU, China, and country variants of MTP, ISUP, SCCP and TCAP
  - GSMA I/F, GSM MAP, ANSI 41
- **Node management** with MML, GUI, and SNMP
- **Virtual SS7 Environment** simulating an SS7 board, its driver, and cable connections
- **SS7 Interface Support** for T1, E1, and J1 (75, 100, 120 Ohm), V.35 and RS-449 interlaces
- **Board Support** for PCI, PCI-e and PMC bus architectures
- **Dual TCP/IP** communication
- **H.110 bus** support
- **OS Support** Solaris 9, Solaris 10, RedHat Enterprise Linux 5

## Connect7 Summary

### Proven Solution

NewNet Communication Technologies is an industry leader in providing evolutionary and powerful Signaling System #7 (SS7) protocols, integrated into a well engineered Application Development Platform. The Connect7 Platform addresses the SS7 and SIGTRAN needs of next generation equipment manufacturers and application developers who need the power and flexibility offered by Connect7 in a cost effective offering. The Connect7 API's supports rapid application development on a distributed framework, enabling developer to implement their designs on time and within budget.

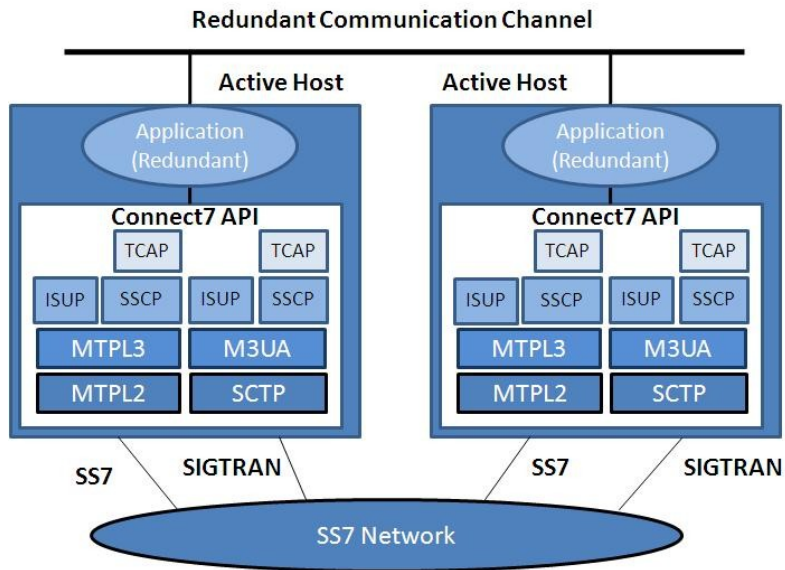
### Value Leadership

NewNet's Connect7 is a high performance solution with full SS7 and SIGTRAN functionality supporting industry standard controller boards and computing platforms. The Connect7 open architecture design supports a multi-vendor environment and ensures easy portability to a variety of host platforms that support industry standard bus architectures like PCI, PCI-e, and PMC with V.35, T1/E1, and RS449 network interfaces.

### Distributed Functionality

The reliable Connect7 supports distributed system functionality in MTP, SCCP, TCAP, and ISUP layers. In the distributed configuration, two computing hosts can be configured to run concurrently, as part of a single signaling point. Connect7 provides the fail-over mechanisms to prevent service interruption. Links from the SS7 network terminate on multiple hosts, even if they belong to the same link set. Furthermore, all hosts are simultaneously active. If a host becomes inoperative, the other host continue to preserve the active ISUP calls, bringing availability to 99.999%.

## Architecture Diagram



## Technical Specifications

Features	Description
Hosts	Up to 2 hosts supported in distributed cluster configuration
MTP	Up to 16 SS7 links Up to 8 link-set connections to adjacent signaling transfer points or signaling end points Up to 8 Signaling Points
SCCP	Up to 16 Global Title Types Up to 256 Translation types per global title type
TCAP	Up to 8,192 concurrent TCAP transactions per TCAP user Up to 8 TCAP users Up to 16 instances per TCAP user
ISUP	Up to 4,082 trunk groups between call control and ISUP; up to 128 trunk groups per remote exchange Up to 32 circuits per trunk group in ITU Up to 24 circuits per trunk group in ANSI Up to 2048 remote ISUP Exchanges
SIGTRAN Stack	RFC 3332/4666 compliant M3UA RFC 2960, 3309, 4460 compliant SCTP (Linux) RFC 4960 ( Solaris)

## Standards Compliance

SS7 Layer	ANSI	ITU
MTP	T1.111.1-8(1992,1996)	Q.701-Q.708 (1993, 1997)
SCCP	T1.112x (1992)	Q.711-Q.714 (1993)
TCAP	T1.114 (1992, 1996)	Q.771-Q.775 (1993,1997)
ISUP	T1.113x(1992, 1996)	Q.761-Q.764 (1993, 1997)

## Technical Operation Environment

PCI-X Board	NO. LINKS	INTERFACES
PCI 334	4	4 port RS449, 4 port V.35
PCI 379APQ/372APQ	Up to 16	2 port T1/E1
PCI 379APQ/372APQ	16	4 port T1/E1
PMC 8260	16	2 port T1/E1
PCI-e Board	16	4 port T1/E1
HDCII-LPe	16	4 port T1/E1

## About NewNet Communication Technologies

NewNet Communication Technologies is a recognized leader in signaling and messaging solutions for wireless, IP, and wireline networks. The robust, scalable signaling platforms have enabled rapid development and deployment of a wide spectrum of carrier grade, revenue generating and compliance applications. NewNet is a pioneer in the development of standards based SS7 signaling solutions and is committed to providing unparalleled service and value to our customers. For nearly two decades, NewNet has been synonymous with messaging excellence and is the trusted name in SS7 and SIGTRAN signaling solutions.

*For more information on our products and services, visit our website at: [www.newnet.com](http://www.newnet.com)*

## NewNet Communication Technologies, LLC

Trumbull Corporate Park  
35 Nutmeg Drive,  
Trumbull, CT 06611

[www.newnet.com](http://www.newnet.com)

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